

*Confidential File*

22 September 1964

MEMORANDUM FOR RECORD

SUBJECT: Trip Report [REDACTED]  
31 August - 2 September 1964

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1. The purpose of this trip was to make an in-plant, pre-shipment, inspection of the Change Detector built by [REDACTED] for NPIC. Attendees at the inspection were:

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[REDACTED]

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2. During a pre-trip telephone conversation on 31 August [REDACTED] told the monitor that the autocorrelation feature was not fully adjusted. He expected to have it operating when we arrived on 1 September but it was not operable at any time during our two-day visit. According to [REDACTED] the problem is solely a matter of adjustment, not of design.

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3. Although [REDACTED] had an opportunity to use the other features of the Change Detector, the non-operation of the autocorrelator lessened the value of the trip. Because some of the cloud-and shadow-reject electronic circuitry is on the same circuit board as the autocorrelation circuitry, the rejection features were also non-operable. However, it is not considered worthwhile for these three people to make another trip to [REDACTED] solely to see the autocorrelation feature.

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Declass Review by NIMA / DoD

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GROUP 1  
Excluded from automatic  
downgrading and  
declassification

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4. [REDACTED] has drafted a service contract and will send it to us as soon as it has been processed through their channels. Some general features of the contract are:

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a. The contract would be for one year and would provide all maintenance spares and one two-day trip per month by a team consisting of one senior engineer and one technician.

b. The cost would be approximately as follows:

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[REDACTED]

c. The material cost is based on percentages of the dollar value expended on similar categories of the material used to build the Detector. These categories were: short lead-time items such as capacitors, resistors, transistors, etc., which can be purchased at local TV and electronic stores; longer lead-time items such as those fabricated by [REDACTED] specially for the Change Detector; and the very long lead-time items such as the cathode ray tube used in the flying spot scanner. This CRT costs about [REDACTED] and, if the Detector is to receive a lot of use in the near future, would be a necessary spare. [REDACTED] could not give an estimate of the life of the CRT in-hours of operation as the "Life" depends on the light output of the phosphor.

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5. The titles of the controls on the control panel have been changed as we requested. The controls now refer to "left film" and "right film". As used in the Change Detector, "left film" means the film that is loaded into the left-hand optical system. The image of this film is viewed on the left monitor and the characteristics of the image are controlled by the controls on the left half of the control panel. The right film is, in turn, loaded into the right optical path, viewed on the right monitor, etc. The panel markings are illuminated from below by an electroluminescent panel whose intensity is controlled by a knob on the right end of the control panel. The push-button controls ("on-off", "flicker", etc.) are illuminated by incandescent lamps whose intensity is controlled by another knob, also on the right end of the control panel.

6. [REDACTED] estimated that moving the Change Detector within the Center would require about one day, assuming that the move does not cause any major mis-alignment of the optical or electronic equipment. If we also assume that the [REDACTED] people make the in-Center moves and that one day is required for the move and a second day for the "tune-up" after the move, each move would cost us about [REDACTED] based on the costs listed in paragraph 4, above. Moves must therefore be kept to a minimum and, when possible, combined with a monthly service visit. After our maintenance personnel become familiar with this equipment they should be able to make any necessary moves without assistance from [REDACTED]

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7. While at [REDACTED] on 1 and 2 September, it was planned that the Change Detector would be shipped to us during the week of 14 September. The un-crating, assembly of the two major components and the final de-bugging will require about five days. [REDACTED] should be present for the actual uncrating so that responsibility for the condition of the Detector will remain with [REDACTED] until we can receive a fully-operable piece of equipment. We will have to provide an "electric mule" or similar device plus the necessary man-power to remove the Detector from the skid prior to moving to the checkout room. The Detector itself is about 6' 8" high. The crating, if used, and skid will add as much as a foot, bringing the total height to about 7' 8". The Detector probably will not be fully crated but will be placed on a skid and covered with opaque protective sheeting.

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8. Upon return to the Center on 3 September, it was found that space would not be available for the checkout until the existing, temporary, room is vacated at the end of the month. Therefore, [REDACTED] was advised to plan on a shipping date later in the month. The latest plan calls for pick up at [REDACTED] on Monday, 28 September and delivery at the Center on Tuesday

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or Wednesday. The Detector would have to be stored in the hall until the following Monday, 5 October, when [REDACTED] and the other two [REDACTED] personnel [REDACTED] would start the uncrating, etc.

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9. Because the autocorrelation, cloud-and shadow-reject and resolution were either non-operative or had not been "tuned-up" to the desired level, the technical monitor must make another trip to [REDACTED] before the in-plant acceptance can be given. This trip is tentatively planned for the period 21 - 23 September 1964. [REDACTED] will call on 17 September 1964 to confirm the readiness of the equipment.

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[REDACTED]  
Development Branch, P&DS

Orig. - Contract File, Dev. Br.

- 1 - [REDACTED]
- 1 - Chrono

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